CLAIMS

What is claimed is:

1	1. A method for controlling a powertrain in a motor vehicle
2	having a first torque source and a second torque source each providing a torque
3	output to a transmission, the method comprising:
4	determining a vehicle speed and a current gear selection of the
5	motor vehicle;
6	calculating a threshold value from the vehicle speed and the current
7	gear selection;
8	determining a accelerator position of the motor vehicle;
9	calculating a accelerator position rate of change from the
10	accelerator position;
11	comparing the accelerator position rate of change to the threshold
12	value;
13	increasing the torque output from the first torque source if the
14	accelerator position rate of change is less than the threshold value; and
15	downshifting the transmission if the accelerator position rate of
16	change is greater than the threshold value.
1	2. The method of claim 1, wherein determining the vehicle
2	speed and current gear selection includes reading a vehicle speed sensor and a
3	gear selection sensor in the motor vehicle.

- 1 3. The method of claim 1, wherein determining a accelerator 2 position includes reading a accelerator sensor in the motor vehicle.
- The method of claim 1, further comprising synchronizing the second torque source to the first torque source if the first torque source is at full torque and the accelerator position rate of change is less than the threshold value.
- 5. The method of claim 1, wherein calculating the threshold value further includes analyzing engine total hours of operation, current operating efficiency, usage of the accelerator, air conditioning utilization, and auxiliary power requirements.